

Product datasheet for **MG224802**

Myo1h (NM_001164573) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myo1h (NM_001164573) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Myo1h
Synonyms: 4631401O15Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224802 representing NM_001164573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGGGGCGCTCACCGCCAGGGACAAGGTTGGAGTGCAGGACTTTGTGCTATTGGATGCCTACACCA
 GCGAGTCTGCCTCCTGGAGAATCTTCGCAAGCGTTTCCGAGAGAACCTCATCTATACATACATCGGGAC
 ACTGCTTGTGTCTGTGAATCCGTACCAGGAGCTGGGAATCTATACTGCCAGCCAGATGGAACCTTACCAA
 GGAGTCAACTTCTTTGAACTACCACCACATGTCTACGCCATCGCTGACAATGCCTATCGCATGATGTGCT
 CGGAGCTGAACAACCACTTCATCCTCATTCTGGAGAGAGCGGAGCTGGGAAGACAGAGGCTCCAAGAA
 GATCCTCCAGTACTTCGCGGTGACTTGTCCGATGACAGAGTCACTCCAAATAGCCCGAGACAGGCTGCTG
 CTCTCCATTCCAGTCTGGAGGCTTTCGAAATGCCAAGACCCTCCGTAACGACAACCTCCAGCAGATTTG
 GGAAGTACATGGACATACAGTTCGACTTCCAGGTTGTTCTGTAGGCGGCCACATCATCAGTTACTTGAT
 CGAAAAGTCCCAGTCTGTCTATCAAAACCACGGCGAGCGGAACCTCCACATCTTCTACCAGCTGCTAGCG
 GGTGGTGGATCGGAGCGCCTCGCCTCCCTGGGACTCGAGCGAGACCCCGAGCTCTACAAGTACCTCTCGC
 AGGGTCATTGTGCCAGAGAGTCCGCCATCAGTGACAAGAATGACTGGGAAACCGTGTGTGGTGCCTTTTC
 TGTCATTGGTTTCACTGAAGCCGACCTTGAGAACCTCTTTGGGATCATCGCTAGTGTCTACACCTGGGC
 AATGTTTGTTCAGGGGGACAAACAAGGCTGTGCCAGCGTCCCGGACACCCAGAAATCAAGTGGATTG
 CCAAGTCTCTGGGGTCTGCCCGGCTGTTCTTTTGGAAAGCTCTCACTCACAGGAAGATTGAAGCCAAAAC
 AGAAGAGGTGATATGCCCGTTGACGGTGAAGTCTCTGTTTACGCCAGAGACGCCATGGCAAAGGCCGTT
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 AGACTGTGATTGGGTTGTTGGACATCTATGGCTTCAAGTCTTTGACAAAAATGGTTTTGAACAGTTTTG
 TATAAATTACTGCAATGAGAACTACAGCAGCTGCTGATAGAGAGGACGCTGAAGGCGGAGCAGGCCGAG
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 GAGTTTCTGGAGAAGCTGGAGGAGAAAGTGGGAAGCATGCGCACTTCAAACCCGGAAGCTGGCTGGT



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CCAAAGGCCCGGAAGAGGATCGGCTGGCTGGAATTCTGCCTCCTGCATTACGCAGGAGAGGTTACCTACT
 GCACCAAAGGATTTTTGGAGAAAAACAATGACCTGCTTTACAGACACCTGAAGGAGGTGCTGTGCAGCTC
 CAAGAATAGCATCTTGAGGGAATGTTTCTGGTGGCGGAGCTTAAAAACCGGAGGAGACCGCCACGGTT
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 GCTGCATCAAGCCCAACGAGAGGAAGGAACCCAGCAAGTTTGACGACTTCTCATCAGCCATCAGATCAA
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 GCAACATAAAATCCAAAGTGTCTCAACTGCTTGGCAGTGAGAAAAATCCAGTATGGCGTCCCGGTATCAA
 GTATGACAGGAAGGGCTTCAAGGCACGGCAGCGCAACTCCTCCTCACACAGAGGTGAGCATACTGGTG
 GAGCTTCCAAAGTCAAGCAGAAGATAGAGTATGCAGCCGTGAGAGGCGTCTCCACCAGCAGCCTCAGCG
 ATGGAATCTTGGTCATTACATCTCACCAGCGGACAAACAGCAAAAGGGGGACGTATCTGCAGTGTGA
 ACACATATTTGAGGTGGCCACTAAGCTCGCCATGCTCATAAGGAAGGAGCACACCGTCCGTGTTGTCCAG
 GGAAGTTTACAGTTCTACGTGAGTCTGGGAGAGAAGGCACGATAGTTTTTGAGACTGGAGAGGAAGACC
 AAGTCTATAAAGATAAAAACGGACAGTTAAGAGTGGTGTCCGACGGGAAGAAAACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224802 representing NM_001164573
 Red=Cloning site Green=Tags(s)

MEGALTARDKVGVDQFVLLDAYTSESAFLENLRKRFRENLIYTYIGTLLVSVNPNYQELGIYTASQMELYQ
 GVNFFELPPHYAIADNAYRMMCSELNNHFILISGESGAGKTEASKKILQYFAVTCPMTESLQIARDRL
 LSIPVLEAFGNAKTLRNDNSSRFKYMIDIQDFQGVVGGHIIISYLIEKSRVVYQNHGERNFHIFYQLLA
 GGGSERLASLGLERDPQLYKYLQGHCARESPIISKNDWETVCGAFSVIGFTEADLENLFGIIASVHLHG
 NVCFKGDQKGCASVPDTHEIKWIAKLLGVCPAVLLEALTHRKIEAKTEEVICPLTVELSVYARDAMAKAV
 YGRTFTWLVNRINSSLVNDFTQKTVIGLLDIYGFVFDKNGFEQFCINYCNEKLQQLLIERTLKAQAE
 YESEGIEWETVQYFNKIIICDLVEERHRGIIISILDEECIRPGPATDL SFLEKLEEKVGHAFQTRKLAG
 PKGRKRIGWLEFCLLHYAGEVTYCTKGFLEKNDLLYRHLKEVLCSSKNSILRECFLVAELENRRRPPTV
 GTQFKNSLSSLEILISKEPSYIRCIKPNRKEPSKFDDFLISHQIKYLGMEHLRVRRAFAYRRKYEH
 FLQRYKSLCPDTWPHWHGPPGEGVERLIKYIGYQPQDYKLGKTKIFIRFPRTLFATEDAFEFKSHQLVSR
 IQATYKGLGRREYMKRQAATKLEAHWRGVLARKEIKRRRWAVQIIRRFVKGFINRDKPLCPDNEEFVV
 LVRKNYILNLRHYVKNVLDKSWLRPPGILENASNLLRRMCTRNLVRKYCRGISAERKAMMQQKVVVTS
 FRGKKEGYAESLNQLFAGSRLDESNINPKVLQLLGSEKIYGVPIKYDRKGFARQRQLLLTQRSAYLV
 ELSKVKQKIEYAAVRGVSTSSLDGILVIHISPADKQKGDVILQCEHIFEVATKLAMLIRKEHTVRVVQ
 GSLQFYVSPGREGTIVFETGEEDQVYKDKNGQLRVVSAGKKT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001164573.2](#)

RefSeq Size: 4631 bp

RefSeq ORF: 3069 bp

Locus ID: 231646

Cytogenetics: 5 F